

# TARGET 1B

Name Answer Key Date \_\_\_\_\_

Simplify each expression.

1.  $9^2$  81

2.  $8^3$  512

3.  $\left(\frac{7}{8}\right)^2$   $\frac{49}{64}$

4.  $(4+3)^2$  49

5.  $8+5(7)$  43

6.  $\left(\frac{21}{3}\right)-2(3)$  1

7.  $11(3)-3^2$  24

8.  $\left(\frac{15}{5}\right)^3-6(2)^2$  3

9.  $(3(4))^3$  1728

10.  $3^4-2^4\div 2^2$  77

11.  $5[(4+8)-3^3]$  -75

12.  $2[(7-10)^2+5]^2$  392

13.  $[(32\div 4)^3-500]^3$  1728

14.  $\left(\frac{2(-2)(4)}{12-4(2)}\right)^3$  -64

Evaluate each expression for  $x=3$  and  $y=2$ .

15.  $x+7$   $3+7=10$

16.  $8-y$   $8-2=6$

17.  $\frac{x^3}{3}-8$   $\frac{3^3}{3}-8 = \frac{27}{3}-8 = 9-8 = 1$

18.  $5(y)^3-6$   $5(2)^3-6 = 5(8)-6 = 40-6 = 34$

19.  $-6(x)^2+y^3-8$   
 $-6(3)^2+2^3-8$   
 $-6(9)+8-8$   
 $-54+8-8 = -54$

20.  $\left(\frac{x+1}{y^2}\right)^2$   $\left(\frac{3+1}{2^2}\right)^2 = \left(\frac{4}{4}\right)^2 = 1^2 = 1$